# 1 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX 2 3 In the Matter Of: 4 Burbank Operable Unit 5 San Fernando Valley Superfund Sites 6 Aeroquip Corporation, U.S. EPA Docket Crane Company, (Inc.) 7 Janco Corporation, No. 92 - 12 Sargent Industries, Incorporated, 8 Antonini Family Trust, and Ocean Technology, Incorporated, 9 Respondents 10 11 Proceeding Under Section 106(a) 12 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended. 13 14 42 U.S.C. § 9606(a) 15 16 17 18 ADMINISTRATIVE ORDER FOR REMEDIAL DESIGN AND REMEDIAL ACTION 19 20 3/26/92 21 22 23 24 25 26 27 KOSTELEC CM/LISTER 3/25/gr 28

1	UNITED STATES ENVIRONMENTAL PRO	OTECTION AGENCY
2	REGION IX	
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4	In the Matter Of:	
5	Burbank Operable Unit San Fernando Valley Superfund Sites	
6	Aeroquip Corporation, Crane Company, (Inc.)	U.S. EPA Docket
7	Janco Corporation,	No. 92 - 12
8	Sargent Industries, Incorporated, Antonini Family Trust, and	
9	Ocean Technology, Incorporated,	
10	Respondents	
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12	Proceeding Under Section 106(a)	
13	of the Comprehensive Environmental Response, Compensation, and	
14	Liability Act of 1980, as amended. 42 U.S.C. § 9606(a)	
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18	ADMINISTRATIVE ORDER FOR REMEDIAL DESIGN AND REMEDIAL	
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## I. INTRODUCTION AND JURISDICTION

A. This Administrative Order (the "Order") is issued by the United States Environmental Protection Agency ("EPA") under the authority vested in the President of the United States by Section 106(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended ("CERCLA"), 42 U.S.C. § 9606(a). This authority was delegated to the Administrator of EPA on January 23, 1987 by Executive Order 12580 (52 Fed. Req. 2926, January 29, 1987), and was further delegated to EPA Regional Administrators on September 13, 1987 by EPA Delegation No. 14-On October 26, 1988, this authority was re-delegated to the Director of the Hazardous Waste Management Division, EPA Region IX, by Order R1290.43. This Order is issued to the abovecaptioned Respondents (the "Respondents") to perform a portion of the interim remedial design and remedial action described in the Record of Decision ("ROD"), dated June 30, 1989, and the Explanation of Significant Differences ("ESD"), dated November 21, 1990, for the Burbank Operable Unit (the "Site," when capitalized) of the San Fernando Valley Superfund sites.

B. The Director of the Hazardous Waste Management Division, EPA Region IX, has determined that there may be an imminent and substantial endangerment to the public health, welfare or the environment because of the release and threatened release of hazardous substances at or from the Site. This Order directs Respondents to undertake actions that EPA has determined to be necessary to protect the public health, welfare, and the environment at the Burbank Operable Unit Site.

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1	C. This Order applies to the following persons, each of
2	which is a "Respondent:"
3	<ol> <li>Aeroquip Corporation, a Michigan corporation 1715 Indian Wood Circle</li> </ol>
4	Maumee, OH 43537
5	Service Agent: CT Corporation System
6	818 West Seventh Street Los Angeles, CA 90017
7	2. Antonini Family Trust
8	3050 N. San Fernando Blvd. Burbank, CA 91504 Trustee:
9	Mario E. Antonini 11374 Tuxford Street
10	Sun Valley, CA 91352
11	<ol> <li>Crane Company, (Inc.) a Delaware corporation</li> <li>3000 Winona Avenue</li> </ol>
12	Burbank, CA 91504 Service Agent:
13	CT Corporation System 818 West Seventh Street
14	Los Angeles, CA 90017
15	<ol> <li>Janco Corporation, a California corporation</li> <li>3111 Winona Avenue</li> </ol>
16	Burbank, CA 91504 Service Agent:
17	Joan A. McKenzie 3111 Winona Ave.
18	Burbank, CA 91504
19	5. Ocean Technology Inc., a California corporation 2835 N. Naomi Street
20	Burbank, CA 91504 Service Agent:
21	Thomas E. Ross 2835 N. Naomi Street
22	Burbank, CA 91504
23	6. Sargent Industries, Inc., a Delaware Corporation 3010 N. San Fernando Boulevard
24	Burbank, CA 91504 Service Agent:
25	CT Corporation System 818 West Seventh Street
26	Los Angeles, CA 90017
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# A. Site Description and Background

- 1. The Burbank Operable Unit Site (the "Site") consists of the areal extent of groundwater contaminated with hazardous substances that is presently located in the vicinity of the Burbank Well Field and includes any areas to which such contamination migrates. This Site is part of the much larger area of contamination which makes up the San Fernando Valley Superfund sites. The Burbank Well Field consists of ten production wells owned by the City of Burbank which are located in the eastern half of the San Fernando Valley Groundwater Basin (the "Basin"), Los Angeles County, California. These production wells were used by the City as a major source of drinking water for its 95,000 residents until contamination forced their closure.
- 2. The Basin has been an important drinking water resource for the Los Angeles metropolitan area, including the Cities of Burbank, Glendale and Los Angeles. In addition to supplying inexpensive water to a significant portion of Los Angeles county, the Basin can serve as a very large water storage facility. The ability to store excess water allows water purveyors to efficiently use the variable water supply of arid southern California. In times of drought, this capability becomes even more important.
- 3. Before the groundwater was contaminated, the City used the Burbank Well Field as a major component of its drinking water supply. The City must now purchase water from more expensive surface water supplies. The groundwater contamination which

forced the closure of Burbank's public drinking water supply wells was caused by the release of volatile organic compounds ("VOCs"). The contaminants with the highest concentration levels are trichloroethene ("TCE") and tetrachloroethene ("PCE"). These chemicals are commonly used for machinery degreasing, dry cleaning, and metal plating.

- 4. Groundwater contamination was first discovered in the Basin in 1980. In 1984, four sites in the Basin were proposed of for inclusion on the National Priorities List ("NPL"). In 1986, in accordance with CERCLA Section 105, 42 U.S.C. § 9605, the four San Fernando sites were listed on the NPL. The sites are: a) North Hollywood (San Fernando Valley Area 1), b) Crystal Springs (San Fernando Valley Area 2), c) Verdugo (San Fernando Valley Area 3), d) Pollock (San Fernando Valley Area 4).
- 5. The Burbank Operable Unit Site is part of the North Hollywood Area Superfund site, also known as San Fernando Valley Area 1. The Site presently includes the northeast corner of the North Hollywood Area Superfund site, as well as the areas to which the plume of TCE and PCE has spread beyond the original boundaries drawn at the time the North Hollywood (Area 1) Superfund site was listed on the NPL.
- 6. Based on the extensive scope of the groundwater contamination in the Basin, EPA decided to institute an interim remedial action at the Burbank Site as an operable unit prior to the completion of the Remedial Investigation/Feasibility Study for the Basin as a whole. This approach allows the clean-up of heavily contaminated areas to start sooner, rather than waiting for the completion of extensive, Basin-wide studies and decisions

on what further remedial action may be necessary in the Basin and/or at the Site.

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- 7. The Los Angeles Department of Water and Power, under a cooperative agreement with EPA, completed an Operable Unit Feasibility Study ("OUFS") for the Burbank Operable Unit Site in October 1988. This OUFS set forth and analyzed a range of interim remedial action alternatives for the Site.
- 8. On June 30, 1989, EPA issued a Record of Decision ("ROD") for the Burbank Operable Unit Site, which is attached hereto as Appendix A to the Consent Decree attached as Attachment B, and incorporated herein by reference. The interim remedial alternative selected in the ROD includes design, construction, and operation of a groundwater extraction and treatment system at the Site. The system includes groundwater extraction, steam or air stripping units, vapor-phase granular activated carbon adsorption units and monitoring wells. The remedy selected in the ROD is designed to inhibit the migration of contamination in the Basin where additional downgradient public water supply wells are threatened, and to aid in aquifer restoration in the immediate area of the Site. The ROD also provided for the treated water to be delivered to the City's public water supply system.
- 9. In November 1990, EPA issued an Explanation of Significant Differences ("ESD"), which modified the ROD. The ESD is attached hereto as Appendix B to the Consent Decree attached as Attachment B, and incorporated herein by reference. The ESD analyzed alternatives for addressing elevated nitrate levels, which were discovered in the groundwater after the ROD was signed. The ESD selected blending of water with high nitrate

levels with water not containing nitrate in excess of the Maximum Contaminant Level for all water to be delivered to the City's public water supply system. The ESD also states that water not accepted by the City into its public water supply system will be reinjected into the groundwater aquifer in a manner that does not exacerbate the existing contamination.

- 10. The ROD and ESD are supported by an Administrative Record which includes comments by the public on the Feasibility Study and EPA's proposed plan for the remedy, as well as EPA's response to these comments, as required by CERCLA Section 117, 42 U.S.C. § 9617.
- 11. The California State Regional Water Quality Control Board, Los Angeles Region ("RWQCB"), has been overseeing subsurface investigations at properties owned or operated by Respondents in the Burbank area. The results of these investigations and other evidence show that Respondents have contributed to the groundwater contamination at the Site.
- 12. The following list contains some of the individual properties at the Site at which contamination has been detected. Because TCE and PCE are the primary contaminants of concern to date, the discussion of contamination at each facility focuses primarily on the presence of these two substances. This listing of facilities, chemicals and releases of hazardous substances is not meant to be in any way exhaustive and does not constitute a limitation of the liability of any Respondent or any other person.
- a. 3015 Winona Avenue. From 1951 to 1960 this property was used by Aero-Coupling Corporation (a subsidiary of Aeroquip

Corporation) for the manufacture of hose couplings. Aero-Coupling Corporation was dissolved in 1971 and at that time Aeroquip Corporation ("Aeroquip") acquired full title to the property. Aeroquip used the property for the manufacture of aerospace and industrial hardware (1960-69), assembly, warehousing and shipping of hose assemblies (1971-86), and manufacture of pneumatic and hydraulic cylinders (1975-86). The property was vacant from 1986-In 1988 the property was sold to Winona Community Associates. The facility includes or formerly included: two buildings (addresses: 3015 Winona Avenue and 2929 Floyd Street), six underground storage tanks for storing raw and waste mineral spirits and waste solvents, and five groundwater monitoring wells. Aeroquip generated wastes such as spent solvents, spent nitric acid solutions, waste oils, and spent mineral spirits at the facility. Samples of soil taken at this property indicate concentrations of trichloroethene ("TCE") as high as 61 parts per billion ("ppb"). TCE has been detected at depths of 30.5 feet. Laboratory tests on soil samples recovered from the property also detected petroleum hydrocarbons, acetone, toluene, and 2-Samples of groundwater recovered from monitoring wells butanone. located at the facility have detected levels of tetrachloroethene ("PCE") as high as 4,500 ppb and TCE as high as 3,600 ppb. contamination at this facility may have resulted from one or more of the following: leaking underground tanks and/or pipelines, and/or surface spills.

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b. 3000 Winona Avenue. From 1946 to the present, Crane Co. (Inc.) ("Crane") has been the owner and operator of the facility located at 3000 Winona Avenue. The facility was and is

presently used by Crane for the manufacture of aviation and aerospace equipment. The facility formerly included sixteen underground storage tanks for storing lubricating oils, hydraulic oils, solvents, jet fuel, fuel oil, coolants, and gasoline. Crane generates chemical wastes, such as used solvents, including PCE, methyl ethyl ketone ("MEK"), kerosene, trichloroethane ("TCA"), and freon; in the past Crane has generated TCE waste. Samples of the soil taken at this facility indicate concentrations of PCE as high as 490,000 ppb. PCE has been detected at this facility at depths of 70 feet. analysis of soil samples recovered from the facility have also detected TCA, trichlorotrifluoroethane, MEK, acetone, bromodichloromethane, dibromochloromethane, 1,2-dichloroethane ("1,2-DCA"), dichloroethene ("DCE"), methylene chloride, chloroform, oil and grease, and toluene. Samples of the groundwater taken from the five monitoring wells at the facility indicate concentrations of TCE as high as 3,200 ppb and PCE as high as 19,000 ppb. The contamination at this facility may have resulted from one or more of the following: leaking underground tanks and/or pipelines, and/or surface spills.

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c. 3111 Winona Avenue. From 1947 to the present, Janco Corporation ("Janco") has been the owner and operator of the facility located at 3111 Winona Avenue. The facility has been and is currently used for the fabrication and assembly of switching devices and passive electrical components and hardware for aircrafts. The facility either includes or formerly included the following: barrel storage area, TCA dip degreaser, and an above ground storage tank. TCE, TCA, trichlorotrifluoroethane,

toluene, MEK, acids, grease, and paints are among the numerous chemicals known to have been present at this facility. Samples of the soil taken at this facility indicate concentrations of TCE as high as 16 ppb. TCE has been detected in the soil at this facility at depths of 75 feet. Concentrations of PCE as high as 230 ppb have been detected in the soil. Other chemicals found in soil and soil gas samples include petroleum hydrocarbons, TCA, toluene, 1,1-Dichlorethane, chloromethane, and methylene chloride. The contamination at this facility may have resulted from mismanagement or spills of chemicals and/or wastes.

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d. 2835 North Naomi Street. Since 1973 Ocean Technology, Inc. has been the owner and operator at this facility. The facility has been used for the manufacture of signal processing systems. The facility formerly included an underground storage tank used to store machine cutting oil and waste solvents. Samples of the soil taken at this facility indicate concentrations of TCE as high as 15 ppb at a depth of 30 feet. Concentrations of PCE as high as 550 ppb have been detected in the soil. PCE has been detected at depths of 35 Laboratory analyses of soil samples have also detected TCA, acetone, oil and grease, toluene, dioxane, and MEK. groundwater monitoring wells have been constructed at or near this facility to determine the chemical composition of groundwater below this facility. Samples of groundwater from the monitoring wells have shown levels of TCE as high as 1,400 ppb. One of the monitoring wells was constructed "upgradient" of the facility; samples from this well give an indication of the quality of groundwater coming from sources other than the

facility. Three of the monitoring wells were constructed "downgradient" of the facility; samples from these wells give an indication of the quality of groundwater after it has flowed beneath the facility. Samples from the wells have consistently shown an increase in TCE in the groundwater after it has moved beneath the facility (i.e., lower TCE levels detected from the upgradient wells, higher TCE levels detected from the downgradient wells), indicating that the facility is a source of TCE contamination in the groundwater. The contamination at this facility may have resulted from leakage from the underground tank and/or piping, and/or surface spills.

e. 3010 North San Fernando Boulevard. From 1963 to the present, the Kahr Bearing Division of Sargent Industries, Inc. ("Sargent") has been the operator of the facility located at 3010 N. San Fernando Boulevard; the Antonini Family Trust is the owner Sargent has used the facility for the of the facility. manufacturing of precision spherical bearings used primarily in the aerospace industry. The facility either includes or formerly included drums and underground storage tanks. As part of Sargent's manufacturing process, a variety of wastes such as solvents TCE, TCA, trichlorotrifluoroethane, and water soluble coolants, and various oils are generated. Samples of the soil taken at this facility indicate concentrations of TCE as high as 52 ppb and PCE as high as 12,000 ppb. Both TCE and PCE have been detected at depths of 75 feet at this facility. Laboratory analyses of soil samples recovered from this facility have detected petroleum hydrocarbons, TCA, dichloroethene ("DCE"), methylene chloride, and chloroform. The contamination at this

facility may have resulted from one or more of the following: leaking underground tanks and/or pipelines, and/or surface spills.

# B. Enforcement History

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- 1. By February 1989, general notice letters had been sent by EPA to thirty-four (34) potentially responsible parties, including each of the Respondents, with the exception of the Antonini Family Trust.
- 2. In accordance with CERCLA Section 122, 42 U.S.C. § 9622, EPA issued thirty-two (32) special notice letters to potentially responsible parties. Respondents received special notice letters in May 1989, with the exception of the Antonini Family Trust, which received a special notice letter in July The statutory deadline of sixty days for the potentially responsible parties to make a proposal to undertake or finance the remedial action, contained in CERCLA Section 122(e)(2)(B), was extended by EPA at the request of numerous potentially responsible parties. By the extended deadline, EPA received good faith offers to undertake or finance part of the interim remedial action from four potentially responsible parties. Good faith offers were not received from any of the Respondents.
- 3. On or about March 25, 1992, the Federal District Court for the Central District of California entered a Consent Decree (the "Decree") signed by EPA, the Lockheed Corporation ("Lockheed"), the City of Burbank (the "City") and Weber Aircraft, Inc. ("Weber"), under which Lockheed and the City agreed to implement, and Lockheed, the City and Weber agreed to finance, a portion of 28 the interim remedial action specified in the ROD and ESD.

Decree was entered pursuant to CERCLA Section 122, 42 U.S.C. § 9622; it is attached hereto as Attachment B and incorporated herein by reference. Section VII, Subpart F of the Decree included some minor modifications to the interim remedy. The Consent Decree does not cover the design, construction or nonroutine maintenance of the blending facility for nitrate, related water transport and receiving facilities, and certain monitoring. These activities are required to be performed pursuant to this Order. The United States took public comment on the Decree and submitted all comments received and its reply to such comments to the Federal District Court prior to the entry of the Decree by the Court.

## C. Endangerment to Human Health and the Environment

- 1. Concentrations of volatile organic compounds ("VOCs") exceeding State Action Levels ("SALs") and Federal Maximum

  Contaminant Levels ("MCLs") were first discovered in the Basin in 1980. Since that time, EPA and the State have conducted soil and groundwater sampling in the Burbank area. Presently, VOC family members trichloroethene ("TCE") and tetrachloroethene ("PCE") have been found in the Burbank Well Field at levels that exceed the SALs and MCLs for these hazardous substances.
- 2. The maximum concentrations of TCE and PCE found in the City's Public Service Department ("PSD") wells were 1,800 micrograms per liter (" $\mu$ g/L") and 590  $\mu$ g/L, respectively. The MCL and SAL for both TCE and PCE is 5  $\mu$ g/L. Several other VOCs have been detected at levels below MCLs in the Burbank PSD wells, including acetone, toluene, methyl ethyl ketone ("MEK"), carbon tetrachloride, and trihalomethanes. Because TCE and PCE have

been identified as the chemicals of primary concern at the Site, the endangerment information provided here focuses on these two hazardous substances. Some of the other hazardous substances found at the Site are also listed.

- a. Based upon evidence of animal carcinogenicity and preliminary data on human subjects, EPA has determined that TCE and PCE are probable human carcinogens.
- b. Trichloroethene ("TCE"). TCE is a central nervous system depressant following acute or chronic exposure.

  Industrial use of TCE may also result in dermatitis from exposure to vapors of concentrated solvent. In mice, an increased incidence of hepatocellular carcinomas was reported following oral administration of TCE.
- c. Tetrachloroethene ("PCE"). PCE results in an increased incidence of hepatocellular carcinoma in mice. Toxic effect in humans and animals from both acute and chronic exposure to PCE include central nervous system depression, and liver and kidney damage.
- d. Dichloroethene ("DCE"). DCE has been reported to significantly increase the incidence of kidney tumors in male mice. DCE is mutagenic and has caused adverse reproductive effects in rats and rabbits. Chronic exposure to DCE causes liver damage, and acute exposure to high doses produces nervous system damage. EPA has classified DCE as a possible human carcinogen. EPA has established a drinking water MCL of 7 ppb and the State of California has established a State MCL of 6 ppb for 1,1-DCE.
  - e. Trichloroethane ("TCA"). TCA has been associated

with central nervous system depression and cardiovascular effects, including premature ventricular contractions and arrhythmias from exposure to high levels. EPA has established a drinking water MCL of 200 ppb for 1,1,1-TCA.

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- f. Chloroform. Chloroform has been reported to cause an increase in kidney epithelial tumors in rats and hepatocellular tumors in mice. Evidence from human epidemiological studies suggests that exposure to chloroform in water supplies may be associated with increased incidences of bladder, colon, and rectal tumors. Acute exposure to high concentrations of chloroform in humans may result in death caused by ventricular fibrillation. Chronic exposure to lower concentrations may lead to hepatic, renal, and cardiac effects, and central nervous system depression. EPA has classified chloroform as a probable human carcinogen. EPA has established a drinking water MCL of 100 ppb for total trihalomethanes (chloroform is one of the four trihalomethanes included in this regulation).
- 3. The first closures of the City's PSD wells due to groundwater contamination occurred in 1985. By 1991, all of the City's wells had been taken out of service due to high levels of TCE and PCE in the water at the Site. The plume of contamination continues to spread toward downgradient production wells operated by the Cities of Glendale and Los Angeles, threatening these, public drinking water sources. The interim remedial action is necessary to inhibit the further migration of contamination.
- 4. There have been releases of hazardous substances from each of the facilities listed in Paragraph II.A.12, above, into

the soil and groundwater at the Site. There continue to be releases and the threat of releases from each of these facilities into the groundwater at the Site. Hazardous substances from each of the referenced facilities have commingled at the Site, forming a mass of contaminated groundwater (the "Burbank Operable Unit Plume"). The Burbank Operable Unit Plume contains hazardous substances that continue to release and/or that threaten further releases into the environment in the area of the Site through migration of the plume.

- 5. The releases and the threat of releases at the Site may present an imminent and substantial endangerment to public health due to the contamination of groundwater in the area, including contamination of the City's drinking water supply, as well as the threat of contamination of the water supplies of the Cities of Glendale and Los Angeles, located downgradient of the City of Burbank's supply wells. If remedial action is not taken, these residents may be exposed to contaminated groundwater at or from the Burbank Operable Unit Plume through ingestion of, inhalation of, and dermal contact with contaminated water. Each of these pathways represents a distinct risk to public health. The residents of the Cities of Glendale and Los Angeles also face the threat of future exposure through similar routes if the selected interim action is not implemented.
- 6. The releases and threat of releases at the Site may also present an imminent and substantial endangerment to the environment in the area of the Site because of the ongoing releases and/or threat of releases from the Plume. Without the institution of the interim remedial action, the ecosystem in the

area of the Site is threatened by the potential exposure to extracted, untreated water, which may reach areas of ecological concern, including the Los Angeles River.

## III. CONCLUSIONS OF LAW

- A. The Burbank OU Site, and each facility described in Paragraph II.A.12 above, is a "facility" as that term is defined in Section 101(9) of CERCLA, 42 U.S.C. § 9601(9).
- B. Each Respondent is a "person" as defined in Paragraph 101(21) of CERCLA, 42 U.S.C. § 9601(21).
- C. Each of the Respondents is a "liable person" within the meaning of Section 107(a)(3) of CERCLA, 42 U.S.C. § 9607(a)(3), and is subject to this Order pursuant to Section 106(a) of CERCLA, 42 U.S.C. § 9606(a).
- D. The substances listed in Paragraph II.C.2 are "hazardous substances" as defined in Section 101(14) of CERCLA, 42 U.S.C. § 9601(14).
- E. There have been and continue to be "releases" and the threat of "releases" of hazardous substances, within the meaning of Section 101(22) of CERCLA, 42 U.S.C. § 9601(22), into the environment from each of the facilities referenced in Paragraph II.A.12. The hazardous substances released from these facilities have become commingled in the groundwater plume in such a way as to represent an indivisible injury.
- F. There have been and continue to be "releases" and the threat of "releases" within the meaning of Section 101(22) of CERCLA, 42 U.S.C. § 9601(22), of hazardous substances listed in Paragraphs II.C.2 from the Site into the environment surrounding the Plume. The continued migration of hazardous substances from

the Site constitutes a "release," within the meaning of CERCLA Section 101(22), 42 U.S.C. § 9601(22).

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## IV. DETERMINATIONS

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A. Based on the Findings of Fact and Conclusions of Law, the Director of the Hazardous Waste Management Division, EPA Region IX, hereby determines that the release and/or threat of release of one or more hazardous substances from and within the Site may present an imminent and substantial endangerment to public health, welfare or the environment. The groundwater contamination at this Site and the resulting endangerment constitute an indivisible injury.

- B. The remedial measures required by this Order, if performed in accordance with the requirements of this Order, are necessary to protect the public health, welfare and the environment.
- C. The remedial measures required by this Order are consistent with CERCLA and the NCP.

## V. NOTICE TO THE STATE

Prior to issuing this order, EPA notified the State of California, California Environmental Protection Agency pursuant to Section 106(a) of CERCLA, 42 U.S.C. § 9606(a), of EPA's intent to issue this Order.

#### VI. ORDER

Based on the foregoing, Respondents are hereby ordered to comply with the following provisions, including but not limited to all requirements, schedules and deadlines contained in this Order, incorporated into this Order by reference, submitted or prepared by Respondents and approved by EPA pursuant to this

Order or issued or modified by EPA pursuant to this Order:

#### VII. DEFINITIONS

Unless otherwise expressly provided herein, terms used in this Order which are defined in CERCLA or in regulations promulgated under CERCLA shall have the meaning assigned to them in the statute or its implementing regulations. Whenever terms listed below are used in this Order or in the documents attached to this Order or incorporated by reference into this Order (other than the Consent Decree, including all of its appendices, attached as Attachment B), the definitions which follow shall apply. Any word used in the Consent Decree that is defined in the Decree, shall have the meaning provided for it in the Decree when used in the Decree.

- A. "Burbank Well Field" or "Well Field" shall mean the area within the political boundaries of the City encompassing Burbank Public Service Department wells 6A, 7, 10, 11A, 12, 13A, 14A, 15, 17, and 18, as shown on Appendix C to the Decree, which is incorporated herein as Attachment B. (This Appendix contains corrections to the well numbers shown in Figure 2 of the ESD).
- B. "CERCLA" shall mean the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, 42 U.S.C. §§ 9601 et seq.
- C. "City" shall mean the City of Burbank, California, a charter city, and any of its divisions, departments and other subdivisions. "City" shall not include any joint powers authority of which the City of Burbank is a member.
- D. "Consent Decree" or "Decree" shall mean the Consent Decree entered by the Federal District Court for the Central

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- E. "Day" shall mean a calendar day, unless expressly stated to be a working day; provided, however, that in computing any period of time under this Order, where the last day would fall on a Saturday, Sunday, or federal or State holiday, the period shall run until the close of business of the next working day.
- F. "Environment" shall have the meaning set forth in CERCLA Section 101(8), 42 U.S.C. § 9601(8).
- G. "EPA" shall mean the United States Environmental Protection Agency.
- H. "Explanation of Significant Differences" ("ESD") shall mean the document signed by the EPA Region IX Regional Administrator on November 21, 1990 which modifies the ROD and is attached as Appendix B to the Consent Decree.
- I. "Fund" or "Superfund" shall mean the Hazardous Substance Superfund, referenced in Section 111 of CERCLA, 42 U.S.C. § 9611.
- J. "Lockheed" shall mean the Lockheed Corporation, incorporated in the state of Delaware, and any of its subsidiaries, parents, affiliates, predecessors and successors.
- K. "National Contingency Plan" or "NCP" shall mean the National Contingency Plan promulgated pursuant to Section 105 of CERCLA, 42 U.S.C. § 9605, codified at 40 C.F.R. Part 300.
- L. "Paragraph" shall mean a portion of this Order identified by an Arabic numeral.
  - M. "Performance Standards" shall mean those cleanup

standards, standards of control, and other substantive requirements, criteria or limitations, identified in the ROD, ESD and this Order, that the Work required by this Order must attain and maintain.

- N. "Point of Delivery" shall mean the physical point of transfer of the groundwater treated by Lockheed from Lockheed to the City. For the purposes of this Order, such transfer shall take place at the downstream flange of a meter that is located between the groundwater Treatment Plant built by Lockheed and the Valley Forebay Facility and is used to measure the quantity of water to be transferred, as depicted in Appendix E to the Decree.
- O. "Point of Interconnection" shall mean the physical point of transfer of the groundwater treated by Lockheed after it goes through the booster station but before it enters the blending facilities to be constructed pursuant to this Order. For purposes of this Order, such transfer shall take place at the upstream flange of a water meter located on a pipeline between the booster station and the blending facilities and used to measure the quantity of water to be transferred, as depicted in Appendix E to the Decree.
- P. "Point of MWD Connection" shall mean the physical point of transfer of the Metropolitan Water District ("MWD") blending water from the MWD pipeline to the blending facilities to be constructed pursuant to this Order. For the purposes of this Order, such transfer shall take place at the downstream flange of a meter that is located between the MWD pipeline and the blending facilities and is used to measure the quantity of water to be transferred, as depicted in Appendix E to the Decree.

Q. "Point of Water System Introduction" shall mean the physical point of transfer of the blended water from the blending facilities to be constructed pursuant to this Order to the City's public water supply distribution system. For the purposes of this Order, such transfer shall take place at the downstream flange of a valve located on the pipeline between the blending facilities and the City's public water supply distribution system, as depicted in Appendix E to the Decree.

- R. "Record of Decision" ("ROD") shall mean the document signed on June 30, 1989, by the EPA Region IX Deputy Regional Administrator, acting for the Regional Administrator, which is attached as Appendix A to the Decree.
- S. "Release" shall have the meaning set forth in CERCLA Section 101(22), 42 U.S.C. § 9601(22).
- T. "Remedial Action Work" shall mean those activities to be undertaken by Respondents to implement the final plans and specifications submitted by Respondents pursuant to the Remedial Design Work Plan approved by EPA pursuant to Section X (Work To Be Performed) of this Order. The Remedial Action Work does not constitute all of the interim remedial action selected in the ROD (as modified by the ESD).
- U. "Remedial Design Work" shall mean the phase of the Work required by this Order wherein, consistent with the ROD (as modified by the ESD), this Order and the National Contingency Plan, 40 C.F.R. Section 300 et seq. ("NCP"), the engineering plans and technical specifications are to be developed by Respondents for approval by EPA, and on which implementation of the Remedial Action Work shall be based.

V. "Respondents" shall mean those parties listed as such in Subpart I.C of this Order.

- W. "Section" shall mean a portion of this Order identified by a Roman numeral.
- X. "Site" (when capitalized) or "Burbank Operable Unit Site" shall mean the areal extent of TCE and/or PCE groundwater contamination that is presently located in the vicinity of the Burbank Well Field and including any areas to which such groundwater contamination migrates.
- Y. "State" (when capitalized) shall mean the State of California.
- Z. "Subpart" shall mean a portion of this Order identified by a capital letter.
  - AA. "United States" shall mean the United States of America.
- AB. "Valley Forebay Facility" shall mean the structure owned by the City and designated to receive the water treated by Lockheed as a regulating reservoir for the booster station depicted in Appendix E to the Decree. The reservoir has an overflow elevation of 655 feet.
- AC. "Weber" shall mean Weber Aircraft, Inc., incorporated in the state of Delaware, and any of its subsidiaries, parents, affiliates, predecessors and successors.
- AD. "Work" shall mean the performance of the Remedial Design Work and the Remedial Action Work in a manner which accomplishes all of the requirements of Section X (Work To Be Performed) of this Order.
- AE. "Working Day" shall mean a day other than a Saturday, Sunday, or federal or State holiday.

## VIII. NOTICE OF INTENT TO COMPLY

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Each Respondent shall provide, not later than ten (10) days after the effective date of this Order, written notice to EPA's Remedial Project Manager ("RPM") stating whether or not that Respondent intends to comply with the terms of this Order. Respondent does not unequivocally commit to perform the Work as provided by this Order or fails to notify EPA of its intent to comply in the timeframe and manner specified in this Section, that Respondent shall be deemed to have violated this Order and to have failed or refused to comply with this Order. Respondent's written notice shall describe, using facts that exist on or prior to the effective date of this Order, any "sufficient cause" defenses asserted by that Respondent under Sections 106(b) and 107(c)(3) of CERCLA, 42 U.S.C. §§ 9606(b) and 9607(c)(3). The absence of a response by EPA to the notice required under this paragraph shall not be deemed to be acceptance of or agreement with any of Respondents' assertions.

#### IX. PARTIES BOUND

A. This Order shall apply to and be binding upon each Respondent identified in Subpart I.C and each Respondent's respective agents, contractors, subcontractors, successors, and assigns. Respondents are jointly and severally responsible for carrying out all of the Work required by this Order. No change in the ownership, corporate status, or other control of any Respondent shall alter any of the Respondents' responsibilities under this Order.

B. Each Respondent shall provide a copy of this Order to any prospective owner or successor before a controlling interest in

that Respondent's assets, property rights, or stock are transferred to the prospective owner or successor. Respondents shall provide a copy of this Order to each contractor, subcontractor, laboratory, or consultant retained to perform any Work under this Order, within ten (10) days after the effective date of this Order or on the date such services are retained, whichever date occurs later. Each Respondent shall also condition all contracts and subcontracts entered into with respect to the Work upon performance of the Work in conformity with the terms of this Order. With regard to the activities undertaken pursuant to this Order, each contractor and subcontractor shall be deemed to be related by contract to the Respondents within the meaning of Section 107(b)(3) of CERCLA, 42 U.S.C. § 9607(b)(3). Notwithstanding the terms of any contract, Respondents are responsible for compliance with this Order and for ensuring that their contractors, subcontractors and agents comply with this Order and perform any Work in accordance with this Order.

C. Not later than five (5) days prior to any transfer by a Respondent of any real property identified in Paragraph II.A.12, the applicable Respondent(s) shall submit a true and correct copy of its transfer document(s) to EPA, and shall identify the transferee by name, principal business address, and the effective date of the transfer.

#### X. WORK TO BE PERFORMED

## A. <u>General Obligations</u>

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1. Respondents shall be responsible, jointly and severally, for financing and performing the Work as required by

this Order. In the event of insolvency or other failure of any one or more of the Respondents to perform any portion of the Work, any remaining Respondent(s) shall complete such requirements.

- 2. Respondents shall perform the Work in accordance with the NCP, and all amendments thereto, and in accordance with the standards, requirements, specifications, and any schedules contained in this Order, incorporated into this Order by reference, submitted or prepared by Respondents and approved by EPA pursuant to this Order or issued or modified by EPA pursuant to this Order. Respondents shall ensure that:
- a. all designs, workplans, and proposals submitted pursuant to this Order are consistent with (1) the NCP, (2) EPA Guidance on Remedial Design and Remedial Action, OSWER Directive 9355.04A (June 1986), and (3) any other appropriate EPA guidances provided to Respondents by EPA;
- b. all worker health and safety plans prepared pursuant to this Order satisfy the requirements of (1) Part 1920 of Title 29 of the Code of Federal Regulation (54 Fed. Reg. 9294, March 6, 1989), (2) U.S. Department of Health and Human Services Occupational Safety and Health Guidance for Hazardous Waste Site Activities (October 1985 DHHS (NIOSH) Publication No. 85-115), (3) U.S. EPA Standard Operating Safety Guides (July 1988), and
- c. all quality assurance plans prepared pursuant to this Order follow the guidelines listed in Section XVII (Quality Assurance).

(4) any other applicable requirements; and

3. Unless otherwise directed by EPA, no Respondent shall

perform any Remedial Action Work under this Section X (Work To Be Performed) prior to EPA's approval of such Work.

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- 4. Respondents shall appoint a representative (the "Project Coordinator") to act on their behalf to execute the Work, in accordance with Section XIX (Remedial Project Manager and Project Coordinator).
- 5. All personnel performing Work shall be qualified to perform those portions of the Work which they are assigned. Respondents shall submit evidence that all portions of the Work will be performed (not merely reviewed) by personnel qualified to perform those portions of the Work which they are assigned.
- 6. All Remedial Design Work shall be under the direction of a qualified professional architect/engineer. In the timeframe provided in the Work Schedule (attached as Attachment A and incorporated herein by reference), Respondents shall notify EPA in writing of the name, title, and qualifications of the architect/engineer proposed to supervise and direct the Remedial Design Work to be performed pursuant to this Order. Selection of any such architect/engineer shall be subject to disapproval by EPA. The submitted information about the proposed architect/engineer shall include a written statement of qualifications in sufficient detail to allow EPA to make a full and timely evaluation. If at any time, Respondents propose to change the selected architect/engineer, the Respondents shall give written notice to EPA of the name, title and qualifications of the proposed architect/engineer. Any such change shall be subject to disapproval by EPA.
  - 7. If EPA disapproves of the selection of the archi-

tect/engineer, Respondents shall submit to EPA within thirty (30) days after receipt of EPA's disapproval of the architect/engineer previously selected, a list of at least three architects/engineers and their qualifications, including primary support entities and staff, that would be acceptable to Respondents. EPA will thereafter provide notice to Respondents of the architects/engineers on the list that are acceptable to EPA (if any). Respondents may then select any approved architect/engineer from that list and shall notify EPA of the name of the architect/engineer selected within fifteen (15) days of EPA's designation of acceptable architects/engineers.

- 8. All Remedial Action Work shall be under the direction of a qualified professional engineer. In the timeframe provided in the Work Schedule, Respondents shall notify EPA in writing of the name, title, and qualifications of the engineer proposed to supervise and direct the Remedial Action Work to be performed pursuant to this Order. Selection of any such engineer shall be subject to disapproval by EPA. The submitted information about the proposed engineer shall include a written statement of qualifications in sufficient detail to allow EPA to make a full and timely evaluation. If at any time, Respondents propose to change the selected engineer, the Respondents shall give written notice to EPA of the name, title and qualifications of the proposed engineer. Any such change shall be subject to disapproval by EPA.
- 9. If EPA disapproves of the selection of the engineer,
  Respondents shall submit to EPA within thirty (30) days after
  receipt of EPA's disapproval of the engineer previously selected,

a list of at least three engineers and their qualifications, including primary support entities and staff, that would be acceptable to Respondents. EPA will thereafter provide notice to Respondents of the names of the engineers on the list that are acceptable to EPA (if any). Respondents may then select any approved engineer from that list and shall notify EPA of the name of the engineer selected within fifteen (15) days of EPA's designation of acceptable engineers.

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- 10. In the timeframe provided in the Work Schedule, the Respondents shall submit the names of its Remedial Action Contractors/Subcontractors to EPA and shall state in such submission whether the Contractors/Subcontractors were retained by way of a construction contract or through the assignment of the Respondents' in-house resources. Within thirty (30) days of a request by EPA, the Respondents shall provide the qualifications of the Contractors or Subcontractors listed in their requests for approval by EPA. The information submitted shall include a statement of qualification in sufficient detail to allow EPA to make a full and timely evaluation.
- 11. If EPA disapproves of the selection of the Remedial Action Contractors/Subcontractors, Respondents shall submit to EPA within thirty (30) days after receipt of EPA's disapproval of the Contractors/Subcontractors previously selected, a list of at least three Contractors/Subcontractors and their qualifications, including primary support entities and staff, that would be acceptable to Respondents. EPA will thereafter provide notice to Respondents of the names of the Contractors/Subcontractors on the list that are acceptable to EPA (if any). Respondents may then

select any approved Contractor/Subcontractor from that list and shall notify EPA of the name of the engineer selected within fifteen (15) days of EPA's designation of acceptable Contractors/Subcontractors.

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- 12. In the timeframe provided in the Work Schedule and prior to initiation of any construction activities, the Respondents shall submit the names and qualifications of their Independent Quality Assurance Team ("IQAT") for approval by EPA. The IQAT shall be used to provide confidence to the Respondents that the selected remedy is constructed to meet project requirements, but its use shall not release the Respondents from any of their obligations under this Order. The IQAT implements testing and inspecting the work of the Remedial Action Engineer. Each IQAT member is required to be "independent" and autonomous from the Remedial Action Engineer and may come from within the ranks of the Respondents' own staff, the Remedial Design Architect/Engineer organization, or through a separate contractual relationship with a private consulting entity. EPA approval will be based in part on the requirement for independence between the IQAT and the Remedial Action Engineer. The information to be submitted shall include a written statement of qualifications in sufficient detail to allow EPA to make a full and timely evaluation of the IQAT's qualifications.
- 13. If EPA disapproves of the selection of the Remedial Action IQAT, Respondents shall submit to EPA within thirty (30) days after receipt of EPA's disapproval of the IQAT previously selected, a list of at least three IQATs and the team's qualifications, including primary support entities and staff,

that would be acceptable to Respondents. EPA will thereafter provide notice to Respondents of the names of the IQATs on the list that are acceptable to EPA (if any). Respondents may then select any approved IQAT from that list and shall notify EPA of the name of the IQAT selected within fifteen (15) days of EPA's designation of acceptable IQATs.

14. Prior to the start of construction, the Respondents shall schedule and initiate a pre-construction conference. At a minimum, the invitees shall include: Respondents' Project Coordinator; Lockheed's Project Coordinator, the City's Project Coordinator; the EPA Remedial Project Coordinator and any designated EPA Oversight Representatives; Respondents' Remedial Design Architect/Engineer; Respondents' Independent Quality Assurance Team; Respondents' Remedial Action Engineer; and representatives of California Department of Health Services Office of Drinking Water.

The main purpose of the pre-construction conference will be to establish relationships among these parties, including lines of communication.

Work, the Respondents shall be responsible for assuring access for the EPA Project Coordinator and/or the Oversight Representatives to the extent it is required to provide access pursuant to Section XX (Site Access and Notification) of this Order. Respondents shall provide, at their own expense, access to accommodations or office trailer space sufficient for the EPA Project Coordinator and/or Oversight Representatives to accomplish oversight duties with respect to Respondents'

activities, such as review of documents and reports.

16. Upon completion of the construction process (with the exception of non-routine maintenance), Respondents shall conduct a pre-final and final inspection of completed Work. At a minimum, the invitees shall include Respondents and/or their representatives, including the Respondents' Project Coordinator; Lockheed's Project Coordinator; the City's Project Coordinator; the EPA Remedial Project Coordinator and any designated EPA Oversight Representatives; Respondents' Remedial Design Architect/Engineer; Respondents' Independent Quality Assurance Team; Respondents' Remedial Action Engineer; and representatives of the California Department of Health Services Office of Drinking Water.

The purpose of the inspections is to determine if all aspects of the plans and specifications have been implemented at the Site and whether the facilities to be constructed pursuant to this Order are operational and functional. If any items have not been completed, Respondents shall develop a punch list which details the outstanding items still requiring completion or correction.

A final inspection shall be conducted when all the items on the punch list have been completed. All items indicated as requiring correction on the punch list shall be reinspected, and all tests that were originally unsatisfactory shall be conducted again. A final punch list shall be developed for any outstanding deficiencies still requiring correction.

17. Respondents shall submit for review and approval each of the deliverables listed in the Work Schedule (except the

Health and Safety Plan, see below) and shall submit for review the monthly progress reports and the quarterly quality assurance reports described in Subpart X.C of this Order and the Health and Safety Plan required by Paragraph X.C.4 of this Order. Any failure by Respondents to submit any deliverable required by this Order in compliance with any schedule or deadline contained in this Order, incorporated into this Order by reference, submitted or prepared by Respondents and approved by EPA pursuant to this Order or issued or modified by EPA pursuant to this Order (including any failure to submit a required monthly progress report or quarterly quality assurance report) shall be deemed a violation of this Order.

- 18. Respondents shall cooperate with EPA in providing information regarding the Work to the public. As requested by EPA, Respondents shall participate in the preparation of information for distribution to the public and in public meetings which may be held or sponsored by EPA, or in which EPA is a participant, to explain activities at or relating to the Site.
- B. <u>Description of the Work To Be Performed</u>

  The Work to be performed pursuant to this Order includes all activities necessary to accomplish the tasks described in Subparts B.1 through B.2, below. Respondents shall:
  - 1. Design and construct all facilities necessary to:
- a. receive 9,000 gallons per minute ("gpm") of disinfected groundwater at the Point of Interconnection;
- b. blend such disinfected groundwater with MWD supplied water ("blending water") to achieve a combined water supply in the amount of 18,000 gpm ("blended water");

- d. transport 12,000 gpm of blending water from its MWD source near the intersection of Greg Avenue and San Fernando Road to the blending facilities so as to meet system requirements;
- e. transport 18,000 gpm of blended water from the blending facilities to the Point of Water System Introduction so as to meet system requirements;
- f. perform monitoring necessary to design, construct, operate and maintain facilities described in Subparts 1.a through 1.e of this Section; and
- g. monitor the effectiveness of the foregoing facilities in achieving the blending standards established by Section VII Subpart H of the Consent Decree.
- 2. Perform any non-routine maintenance with respect to the facilities described in Subparts 1.a through 1.e of this Section for the twenty (20) year time period of operation and maintenance required by the interim remedial action, unless Respondents are ordered to cease performing such non-routine maintenance by EPA.

### C. Deliverables

The deliverables described in this Subpart, with the exception of the Monthly Progress Reports and the Quarterly Quality Assurance Reports, shall be submitted to EPA, EPA's contractor CH2M Hill, the California Department of Health Services Office of Drinking

Water, California Regional Water Quality Control Board, Lockheed, and the City in the timeframe provided in the Work Schedule, unless EPA modifies such schedule in writing.

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- Respondents shall provide 1. MONTHLY PROGRESS REPORTS: written Monthly Progress Reports to EPA. These Progress Reports shall be submitted by the 10th of each month for the work done the preceding month and planned for the current month. Monthly Progress Report pursuant to this Order will be due by the tenth day of the calendar month immediately following the effective date of this Order. The Progress Reports shall include a general description of the activities commenced or completed during the reporting period, activities expected to be commenced or completed during the next reporting period, and any significant problems that have been encountered or are anticipated during the reporting period and actions being taken to rectify these problems. Each Monthly Progress Report shall specifically address any coordination activities undertaken with Lockheed and the City pursuant to Section XI (Obligation to Cooperate and Coordinate) and future coordination plans.
- 2. QUARTERLY QUALITY ASSURANCE REPORTS: Respondents shall include a Quality Assurance Report to EPA as part of its Monthly Progress Reports for the months of January, April, July and October of each year. Such Reports shall contain information demonstrating that Respondents are complying with the requirements of Section XVII (Quality Assurance) in performing the Work.

### 3. REMEDIAL DESIGN WORKPLAN

a. In accordance with the timeframe set forth in the

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- b. The Remedial Design Workplan shall contain at a minimum the following:
  - (1) Tentative description of the design team;
  - (2) Plan that describes the necessary coordination with Lockheed and the City;
  - (3) Detailed description of the tasks and deliverables that Respondents will complete during the remedial design phase;
  - (4) Detailed schedule for completion of the tasks and deliverables that is consistent with the time-frames set forth in this Order;
  - (5) Design criteria and assumptions;
  - (6) Requirements for additional data collection;
  - (7) Engineering procedures manual that fully describes the procedures for generating, reviewing, checking, issuing, and correcting engineer and design documents;

### 4. HEALTH AND SAFETY PLAN

a. In accordance with the timeframe provided in the Work Schedule, Respondents shall submit a plan that describes the minimum health, safety and emergency response requirements for the pre-design, design and Remedial Action Work activities to be undertaken by the Respondents. The plan shall be prepared in accordance with the U.S. Occupational Safety and Health Administration ("OSHA") requirements and any other applicable

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### 5. PLAN FOR SATISFACTION OF PERMITTING REQUIREMENTS

- a. In accordance with the timeframe provided in the Work Schedule, the Respondents shall submit a plan that describes the permitting requirements for the Remedial Action Work activities to be undertaken by the Respondents and a strategy for meeting such requirements.
  - 6. SITE QUALITY ASSURANCE PROJECT PLAN
- a. A Quality Assurance Project Plan ("QAPP") shall be prepared by the Respondents pursuant to Section XVII (Quality Assurance).
  - 7. CONCEPTUAL REMEDIAL DESIGN REPORT
- a. In accordance with the timeframe set forth in the Work Schedule and the Remedial Design Workplan, Respondents shall submit a Conceptual Remedial Design Report. The Conceptual Remedial Design ends with the completion of approximately 30 percent of the total design effort.
- b. The Conceptual Remedial Design Report shall include at a minimum the following:
  - (1) Design criteria and bases;
  - Project delivery analysis focusing on the (2) management approach to be used in carrying out the design and implementing the Remedial Action Work, including procurement method and contracting strategy, health and safety considerations, review requirements, and contractor and equipment availability;
  - Preliminary plans, drawings, and sketches; (3)

- (4) Outline of required specifications;
- (5) Preliminary construction schedule; and
- (6) Results of value engineering.

### 8. PRE-FINAL REMEDIAL DESIGN REPORT

- a. In accordance with the timeframe set forth in the Work Schedule and the Remedial Design Workplan, Respondents shall submit a Pre-final Remedial Design Report. The Pre-final Remedial Design represents approximately 65 percent of the total design effort. The Pre-final Remedial Design Report shall incorporate all EPA comments on and all requested EPA changes to the Conceptual Remedial Design Report.
- b. The Pre-final Remedial Design Report shall include at a minimum the following:
  - (1) Material and equipment requisitions;
  - (2) Site preparation requirements;
  - (3) Recommended vendor lists;
  - (4) Process flow diagrams;
  - (5) Quality Control source list; and
  - (6) Punch list of needed items.

### 9. FINAL REMEDIAL DESIGN

- a. In accordance with the timeframe set forth in the Work Schedule and the Remedial Design Workplan, Respondents shall submit a Final Remedial Design Report. The Final Remedial Design represents 100 percent of the total design effort. The Final Remedial Design Remedial Design Report shall incorporate all EPA comments on and all requested EPA changes to the Pre-final Remedial Design Report.
  - b. The Final Remedial Design Report shall include at a

minimum the following: 1 (1) Final design plans and specifications; and 2 (2) Preliminary construction schedule. 3 10. REMEDIAL ACTION WORKPLAN 4 a. In accordance with the timeframe set forth in the 5 Work Schedule, Respondents shall submit a Remedial Action 6 7 Workplan. b. The Remedial Action Workplan shall include at a 8 minimum the following: 9 Identification of the Remedial Action team, 10 (1)including key personnel, descriptions of 11 duties, and lines of authority; 12 Description of the roles and relationships of (2) 13 the Respondents, Project Coordinator, 14 15 Remedial Action Engineer, Independent Quality Assurance Team, Remedial Design 16 17 Architect/Engineer, and Remedial Action Contractor; 18 Plan that describes the necessary 19 (3) 20 coordination with the Settling Defendants; Process for the selection of the Remedial 2.1 (4)22 Action Contractor; Schedule for the Remedial Action; 23 (5) 24 (6) Method to implement the Construction Quality 25 Assurance Plan; Health and Safety Plan for field construction 26 (7) 27 activities; Procedures for data collection during the 28 (8)

Remedial Action Work to validate the completion of the Remedial Action.

### 11. INTERIM REMEDIAL ACTION REPORT

- a. In accordance with the timeframe set forth in the Work Schedule, Respondents shall submit an Interim Remedial Action Report. This Report shall document that the facilities constructed by Respondents pursuant to this Order are consistent with the design specifications, and are operational and functional.
- b. The Interim Remedial Action Report shall include at a minimum the following:
  - (1) Synopsis of the Remedial Action Work and certification of the design and construction;
  - (2) Explanation of any modifications to the plans and why these were necessary;
  - (3) Listing of the performance criteria, with an explanation of any modifications to these criteria;
  - (4) Results of monitoring indicating that the Work will meet or exceed the performance criteria.

### XI. OBLIGATION TO COOPERATE AND COORDINATE

A. Respondents shall coordinate their performance of the Work with the tasks to be performed at the Site by Lockheed and the City of Burbank pursuant to the Consent Decree, such that the Work required by this Order and the tasks required by the Consent Decree are accomplished in a timely and satisfactory manner. Such coordination shall include, but not be limited to,

cooperating in scheduling and holding meetings to discuss the Work and the tasks under the Decree.

### XII. ADDITIONAL RESPONSE ACTIONS

- A. EPA may determine that in addition to the Work identified in this Order and attachments to this Order, additional response activities may be necessary to meet the performance standards or to otherwise protect human health, welfare and the environment. If EPA determines that additional response activities are necessary, EPA may require Respondents to submit to EPA for review and approval a workplan for such additional response activities. EPA may also require Respondents to modify any plan, design, or other deliverable required by this Order, including any approved deliverables.
- B. Unless otherwise provided by EPA, within thirty (30) days of receipt of notice from EPA that additional response activities are necessary pursuant to this Section, the Respondents shall submit a workplan for such response activities to EPA for review and approval.
- C. EPA shall take action on such workplan consistent with Section XVI (EPA Review of Submissions).
- D. Respondents shall notify EPA of their intent to perform such additional response activities within seven (7) days after receipt of EPA's request for additional response activities. Respondents shall promptly implement the workplan as approved by EPA, in accordance with the standards, specifications, and schedule contained in the approved workplan or otherwise issued by EPA pursuant to this Order.

### XIII. EPA PERIODIC REVIEW

Under Section 121(c) of CERCLA, 42 U.S.C. § 9621(c), EPA may review conditions at the Site to assure that the Work performed pursuant to this Order adequately protects human health and the environment. Respondents shall conduct, if requested by EPA, the requisite studies, investigations, or other response actions (or any portions thereof) as EPA determines necessary in order to permit EPA to conduct the review under Section 121(c) of CERCLA, 42 U.S.C. § 9621(c). As a result of any review performed under this Section, Respondents may be required to perform additional activities or to modify Work previously performed.

### XIV. ENDANGERMENT AND EMERGENCY RESPONSE

A. In the event of any action or occurrence during the performance of the Work which may present an immediate threat to the public health or welfare or the environment, Respondents shall immediately take all appropriate action to prevent, abate, or minimize the threat, and shall immediately notify EPA's Remedial Project Manager ("RPM") (see Section XIX below). EPA's RPM is not available, Respondents shall notify the EPA Emergency Response Section, Region IX. Respondents shall take such action in consultation with EPA's RPM (or, if the RPM is unavailable, the EPA Emergency Response Section, Region IX, at (415) 744-2000) and in accordance with all applicable provisions of this Order, including but not limited to the Health and Safety In the event that Respondents fail to take appropriate response action as required by this Section XIV, and EPA takes that action instead, Respondents shall be liable to EPA for all costs of the response action.

- C. EPA's RPM shall also have authority, consistent with the NCP, to halt any Work required by this Order and to take any necessary response actions.
- D. Nothing in this Order shall be deemed to limit any authority of the United States to take, direct, or order all appropriate action to protect human health, welfare, and the environment or to prevent, abate, or minimize an actual or threatened release of hazardous substances on, at, or from the Site.

### XV. FORM OF NOTICE

A. Except insofar as oral notification is specifically provided for in this Order, when notification to or communication with the EPA, EPA's Oversight Representative CH2M Hill, Lockheed, the City, Department of Health Services Office of Drinking Water (DHS), or California Regional Water Quality Control Board (CRWQCB) is required by this Order, it shall be in writing, postage prepaid, and addressed as follows:

### 1. As to EPA:

Colette Kostelec
Remedial Project Manager
San Fernando Valley Superfund Site
Hazardous Waste Management Division
U.S. Environmental Protection Agency, Region IX
75 Hawthorne Street (H-6-4)
San Francisco, CA 94105

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### 2. As to CH2M Hill:

Mike Arends CH2M Hill 2510 Redhill Avenue, Suite A Santa Ana, CA 92705

### 3. As to Lockheed:

Ron Helgerson Lockheed Engineering and Sciences Company 2550 N. Hollywood Way, Suite 305 Burbank, CA 91505

### 4. As to the City:

General Manager City of Burbank Public Service Department 164 West Magnolia Blvd. Burbank, CA 91503-0631

### 5. As to DHS:

Gary Yamamoto California Department of Health Services Office of Drinking Water 1449 West Temple Street, Rm. 224 Los Angeles, CA 90026

### 6. As to CRWQCB:

Hank Yacoub California Regional Water Quality Control Board 101 Centre Plaza Drive Monterey Park, CA 91754

- B. If any of the addresses or names in Subpart XV.A change, EPA will notify Respondents in writing and Respondents shall address all submittals or other communications to the new person or address.
- C. In the case of written notices or submittals, a notice or submittal shall be deemed to have occurred on the date the notice or submittal is received by the party to whom notice must be given or a document must be submitted pursuant to this Order.

- A. After review of any deliverable, plan, report, or other item (including any workplan submitted pursuant to Section XII (Additional Response Actions)) which is required to be submitted for review and approval pursuant to this Order, EPA may:
  - 1. approve, in whole or in part, the deliverable;
- 2. disapprove, in whole or in part, the deliverable and direct Respondents to resubmit the deliverable after incorporating all of EPA's comments and including all requested EPA changes;
  - 3. approve the deliverable with modification by EPA;
  - 4. approve the deliverable with specified conditions; or
- 5. disapprove the deliverable and assume performance of all or any part of any response action that is or should have been addressed by the submission.
- B. All actions taken by EPA pursuant to Subpart A of this Section will be communicated to Respondents in writing by the Director, Hazardous Waste Management Division, EPA Region IX, or his representative. No informal advice, guidance, suggestions or comments by EPA personnel regarding reports, plans, specifications, schedules or any other matter shall relieve Respondents of their obligations to obtain formal approvals as required by this Order.
- C. In the event of approval, approval with modifications by EPA, or approval with special conditions, Respondents shall proceed to take any action required by the deliverable, as approved or modified by EPA, in accordance with any schedule contained therein.

D. Upon receipt of a notice of disapproval requesting a resubmittal, Respondents shall, within five (5) days or such longer time as specified by EPA in writing in its notice of disapproval, correct the deficiencies, consistent with any comments by EPA and incorporating any changes requested by EPA, and resubmit the deliverable for approval. Notwithstanding the notice of disapproval, Respondents shall proceed, if so directed by EPA, to take any action required by the non-deficient portions of the deliverable.

E. Submission of a deficient deliverable or failure to submit a deliverable according to any schedule contained in this Order, incorporated into this Order by reference, submitted or prepared by Respondents and approved by EPA pursuant to this Order or issued or modified by EPA pursuant to this Order shall be considered a violation of this Order. An approval by EPA of an initially disapproved and resubmitted deliverable shall end the period of the violation with respect to the disapproved deliverable.

- F. All deliverables required by this Order to be submitted for review and approval are, upon EPA approval, incorporated into this Order as requirements of this Order and shall be an enforceable part of this Order. Any noncompliance by Respondents with such EPA-approved deliverables shall be considered a violation of this Order.
- G. EPA's approval of any plan, deliverable, report or other submittal under this Order shall not be deemed to imply that EPA agrees with every statement or characterization contained in such plan, deliverable, report or other submittal.

H. Notwithstanding any approval which may be granted by EPA, no warranty or guarantee of any kind, either express or implied, is provided by EPA with regard to the Work.

### XVII. QUALITY ASSURANCE

- A. Respondents shall submit to EPA for review and approval, in accordance with the Work Schedule, a comprehensive Quality Assurance ("QA") Project Plan for all Work to be performed pursuant to this Order. The QA Project Plan shall be prepared in accordance with (i) U.S. EPA Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans, QAMS 005/80 (December 1980); (ii) U.S. EPA Region IX Guidance for Preparing QA Project Plans for Superfund Remedial Projects, Doc. 90A-03-89 (September 1989); and (iii) U.S. EPA Data Quality Objectives Development Guidance for Remedial Response Actions, EPA/540/G87/003 and 004; or (iv) any superseding or amended version of these documents provided by EPA to the Respondents. Upon receipt of EPA's approval of the Final QA Project Plan, Respondents shall immediately implement the QA Project Plan.
- B. Respondents shall use QA procedures and protocols in accordance with the approved QA Project Plan and shall utilize standard EPA sample chain of custody procedures, as documented in (i) EPA National Enforcement Investigations Center Policies and Procedures Manual, EPA-330/9-78-001-R (May 1978, revised May 1986); and (ii) EPA National Enforcement Investigations Center Manual for the Evidence Audit (April 1984); or (iii) any amended or superseding version of these documents provided by EPA to Respondents, for all sample collection and analysis activities conducted pursuant to this Order.

C. In order to provide quality assurance and maintain quality control regarding all samples collected pursuant to this Order, Respondents shall:

- 1. Use only laboratories which have a documented quality assurance program that complies with EPA guidance document QAMS-005/80.
- 2. Ensure that all contracts with laboratories utilized by Respondents for analysis of samples taken pursuant to this Order:
- a. provide for access of EPA personnel and EPAauthorized representatives, and
- b. allow EPA personnel and EPA's authorized representatives to consult with the personnel that performed analyses for Respondents.
- 3. Ensure that all laboratories utilized by Respondents for analysis of samples taken pursuant to this Order perform all analyses in accordance with the approved QA Project Plan.
- 4. Ensure that all laboratories utilized by Respondents for analysis of samples taken pursuant to this Order participate in an EPA or EPA-equivalent Laboratory Water Supply Performance Evaluation Study. As part of the QA program, Respondents must use a laboratory that, upon request by EPA, shall perform, not no expense to EPA, analyses of samples provided by EPA to demonstrate the quality of each laboratory's data. If a laboratory used by Respondents is certified for drinking water analyses by the California Department of Health Services, Respondents shall request that the laboratory include a notation of the valid certification on the title page of the analyses

results report.

- 5. Ensure that all laboratories utilized by Respondents for analysis of samples taken pursuant to this Order:
- a. maintain, and provide upon request, the records outlined in U.S. EPA Region IX, Laboratory Documentation Requirements for Data Validation (January 1990), and
- b. perform all data validation specified in the QA
  Project Plan in accordance with Laboratory Data Validation
  Functional Guidelines for Evaluating Inorganic Analysis, Draft
  (July 1988), and the Laboratory Data Validation Functional Guidelines for Evaluating Organic Analysis, Draft (December 1990, revised June 1991) or any amended or superseding version of these documents provided by EPA to Respondents.
- 6. Require by contract and use their best efforts to ensure that samples taken on Respondents' behalf for purposes of implementing this Order are retained and disposed of by analytical laboratories in accordance with EPA's customary contract procedures for sample retention, as outlined in the Contract Laboratory Project Statement of Work for Organics (March 1990, revised August 1991), and Contract Laboratory Project Statement of Work for Inorganics (March 1990, revised September 1991) or any amended or superseding versions of these documents provided by EPA to Respondents.

### XVIII. COMPLIANCE WITH APPLICABLE LAWS

A. The Work performed by Respondents pursuant to this Order shall comply with the applicable or relevant and appropriate requirements ("ARARs") identified in the ROD, ESD and Subpart F of Section VII of the Consent Decree, except insofar as the ESD

or the Consent Decree explicitly state that earlier-identified ARARs are superseded by the ESD or the Consent Decree. All activities taken by Respondents pursuant to this Order shall also be performed in accordance with the requirements of all applicable federal, state, and local laws, regulations, and permitting requirements; provided that, as set forth in Section 121(e) of CERCLA, 42 U.S.C. § 9621(e), and the NCP, no permit shall be required for any portion of the Work conducted entirely onsite. Where any portion of the Work requires a federal or state permit or approval, Respondents shall submit timely applications and take all other actions necessary to obtain and to comply with all such permits or approvals.

- B. This Order is not, and shall not be construed to be, a permit issued pursuant to any federal or state statute or regulation.
- C. Nothing in this Order shall be deemed to constitute a pre-authorization of a CERCLA claim within the meaning of Sections 111 or 112 of CERCLA, 42 U.S.C. §§ 9611 or 9612.

### XIX. REMEDIAL PROJECT MANAGER AND PROJECT COORDINATOR

A. All communications, whether written or oral, from any Respondent to EPA shall be directed to EPA's Remedial Project Manager ("RPM"); provided that all communication from counsel for Respondents shall be directed to counsel representing EPA. Respondents shall submit to EPA three (3) copies of all deliverables, plans, reports, and other submittals required to be submitted by this Order, and shall send these documents by overnight mail or certified mail, return receipt requested.

B. EPA's RPM is:

Colette Kostelec
San Fernando Valley Superfund Site
Hazardous Waste Management Division
U.S. Environmental Protection Agency, Region IX
75 Hawthorne Street (H-6-4)
San Francisco, CA 94105
(415) 744-2253

- C. EPA has the unreviewable right to change its RPM. If EPA changes its RPM, EPA will inform Respondents in writing of the name, address, and telephone number of the new RPM.
- D. EPA's RPM shall have the authority lawfully vested in a Remedial Project Manager and On-Scene Coordinator by the NCP, 40 C.F.R. Part 300 et seq., including such authority as may be added by amendments to 40 C.F.R. Part 300. EPA's RPM shall have the authority, consistent with the NCP, to halt any work required by this Order, and to take any necessary response action.
- E. Within ten (10) days after the effective date of this Order, Respondents shall submit to EPA in writing the name, address, telephone number and qualifications of their proposed Project Coordinator, including the primary support entities and staff, proposed to be used in carrying out Work under this Order, for EPA review and approval.
- F. If EPA disapproves of the selection of the Project Coordinator, Respondents shall submit to EPA within thirty (30) days after receipt of EPA's disapproval of the Project Coordinator previously selected, a list of at least three Project Coordinators, their addresses, telephone numbers, and qualifications, including primary support entities and staff, that would be acceptable to Respondents. EPA will thereafter provide notice

to Respondents of the names of the Project Coordinators on this list that are acceptable to EPA (if any). Respondents may then select any approved Project Coordinator from that list and shall notify EPA of the name of the Project Coordinator selected within fifteen (15) days of EPA's designation of acceptable Project Coordinators.

G. If at any time Respondents wish to change their Project Coordinator, at least ten (10) days prior to the date of the desired change Respondents shall provide to EPA for review and approval the name and qualifications of the proposed Project Coordinator and shall obtain approval from EPA before the new Project Coordinator undertakes any responsibilities under this Order.

H. The Project Coordinator shall be responsible for overseeing Respondents' implementation of the Work required by this Order and for coordinating communication between EPA and Respondents.

### XX. SITE ACCESS AND NOTIFICATION

A. Access to Areas Not Owned or Controlled by Respondents

1. To the extent that the Site or other areas where Work is to be performed under this Order are presently owned or controlled by parties other than Respondents and to the extent that access to or easements over such property is required for the proper and complete performance of this Order, Respondents shall use their best efforts to obtain from the owners or those person who have control over the property, including lessees, access agreements within thirty (30) days of the effective date of this Order. For purposes of this Section, "Best efforts"

includes but is not limited to seeking judicial assistance and the payment of reasonable sums of money as consideration for access.

- 2. Any access agreements to be obtained by Respondents shall provide access to EPA, its contractors and other representatives, and to Respondents and their contractor(s) and authorized representatives, and such agreements shall specify that Respondents are not EPA's representatives with respect to liability associated with Site activities. Respondents shall provide copies of any access agreements obtained pursuant to this Section to EPA within seven (7) days of execution of the agreement.
- 3. If the required access agreements are not obtained within the thirty (30) day period specified above, Respondents shall notify EPA within five (5) days after the expiration of that time period regarding both the lack of and efforts to obtain such agreements. Subject to the United States' non-reviewable discretion, the United States may direct Respondents to continue to use best efforts to obtain access, may use its legal authorities to obtain access for the Respondents, may perform the Work in the areas at issue with EPA employees or EPA authorized representatives, and may modify, amend or terminate the Order. If the United States incurs costs related to obtaining access in areas to which Respondents were unable to obtain access, Respondents shall be liable for all costs incurred by EPA, including but not limited to attorneys' fees and other legal costs.
  - 4. In the event that EPA, or its authorized

representatives, performs Work in areas to which Respondents were unable to gain access, and EPA does not modify, amend or terminate the Order, Respondents shall perform all other Work not requiring access to that particular area. Respondents shall integrate the results of any such tasks undertaken by EPA or its authorized representatives into its reports and deliverables.

- B. Access to Areas Owned or Controlled by Respondents
- 1. Respondents or any of their agents or representatives shall allow EPA and its authorized representatives to enter and freely move about all property which they own or control at the Site and off-Site areas subject to or affected by the Work under this Order or where documents required to be prepared or maintained by this Order are located, for the purposes of:
- a. inspecting conditions, activities and the results of activities related to the Site;
- b. inspecting and copying any records, files, photographs, documents, sampling and monitoring data, contracts, operating logs, and other documents or writings related to Site;
- c. reviewing the progress of the Respondents in carrying out the terms of this Order;
- d. conducting tests as EPA or its authorized representatives deem necessary;
- e. using a camera, sound recording device or other documentary type equipment;
  - f. and verifying the data submitted to EPA by Respondents.
  - 2. Under the provisions of Section 104(e) of CERCLA, 42 U.S.C. § 9604(e), EPA explicitly reserves the right to observe

the Work of Respondents as it is performed. EPA reserves, for itself and its authorized representatives, the right to take splits or duplicates of any samples obtained by any Respondent or anyone acting on any Respondent's behalf in the implementation of the Work. EPA and its authorized representatives shall also have the right to take any other samples that EPA or its authorized representatives deem necessary.

C. Sampling and Project Notification

- 1. Respondents shall notify EPA not less than fourteen (14) days in advance of any sample collection activity related to the Work. Respondents shall notify EPA not less than fourteen (14) days in advance of any disposal of any such sample, and EPA shall have the opportunity to take possession of all or a portion of such sample. Respondents shall notify EPA at least seven (7) days in advance of any changes in the sampling schedule, if possible. If changes in any scheduled sampling are required within seven (7) days of the scheduled sampling, Respondents shall notify EPA orally at least forty-eight (48) hours prior to the new date of any such sampling.
- 2. Each Respondent shall notify EPA no less than thirty (30) days in advance of commencing any project other than the Work that may affect implementation of the interim remedy for the Site or produce data or information that may affect an evaluation of the remedy, including but not limited to placement of any groundwater monitoring wells in the vicinity of the Site.
- 3. Nothing in this Order shall be interpreted as limiting or affecting any right of entry or inspection authority EPA has pursuant to law.

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- 1. Respondents shall provide to EPA upon request clear and legible copies, as well as access to the original, of all
- records, documents and information (other than documents or information privileged under the attorney-client privilege or

A. Document Availability

- work product doctrine) within their possession and/or control or
- that of its contractors or agents relating to activities at the
- Site or to the implementation of this Order, including but not
- limited to sampling, analysis, chain-of-custody records,
- manifests, drafts, trucking logs, receipts, reports, sample
- traffic routing, notes and correspondence. Respondents shall
- also make available to EPA for purposes of investigation,
- information gathering, or testimony, its employees, agents or
- representatives with knowledge of relevant facts concerning the
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performance of the Work.

- 2. Respondents may assert a claim of business
- confidentiality covering part of all of the information submitted
- to EPA pursuant to this Order under 40 C.F.R. § 2.203, provided
- such claim is not inconsistent with Section 104(e)(7) of CERCLA,
- 42 U.S.C. § 9604(e)(7), or other provisions of law. This claim
- shall be asserted in the manner described by 40 C.F.R. § 2.203(b)
- and substantiated by Respondents at the time the claim is made.
- Information determined to be confidential by EPA will be given
- the protection provided by CERCLA Section 104(e)(7), 42 U.S.C. §
- 9604(e)(7). If no such claim accompanies the information when it
- is submitted to EPA, it may be made available to the public by
- EPA without further notice to Respondents. Respondents shall not

assert confidentiality claims with respect to any data related to Site conditions, sampling, or monitoring (including but not limited to hydrogeological or chemical data and groundwater monitoring data) or any other information covered by CERCLA Section 104(e)(7)(F), 42 U.S.C. § 9604(e)(7)(F).

- 3. Respondents shall maintain for the period during which this Order is in effect, an index of any materials, records, or documents relating to activities at the Site or to the implementation of this Order, that Respondents claim contain confidential business information and which EPA has requested. Respondents shall routinely update this index at least every six months. index shall contain, for each item, the date, author, addressee, and subject of the item. Upon a written request from EPA, Respondents shall submit a copy of the most recent index to EPA.
- 4. Respondents shall maintain for the period during which this Order is in effect, an index of any materials, records, or documents relating to activities at the Site or to the implementation of this Order, that Respondents claim are covered by the attorney work product doctrine or the attorney client privilege and which fall within any document request made by EPA pursuant to this Order. Respondents shall routinely update this index at least every six months. The index shall contain, for each item, the date, author, addressee, and subject of the item. written request from EPA, Respondents shall submit a copy of the most recent index to EPA.

#### B. Record Preservation

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1. Within sixty (60) days after the effective date of 28 this Order, each Respondent shall submit a written certification

to EPA's RPM, signed by a responsible corporate official, or in the case of the Antonini Family Trust, the trustee, stating whether or not Respondent has altered, mutilated, discarded, destroyed, or otherwise disposed of, since notification of potential liability by the United States or the State, any records, documents, or other information relating to: (i) its potential liability under CERCLA, or (ii) its use of or disposal of hazardous substances with regard to the Site. certification shall also state that the trustee or responsible corporate official has conducted a thorough investigation of that Respondent's officers, directors, employees, agents, contractors, subcontractors, consultants or other persons having knowledge of such information. Each Respondent shall not alter, mutilate, discard, destroy, or otherwise dispose of any such records, documents, or other information without prior EPA approval. Ιf EPA requests any or all of these records, documents or other information, the applicable Respondent shall provide clear and legible copies, as well as access to the original, of the records, documents or other information (other than documents or information privileged under the attorney-client privilege or work product doctrine) to EPA.

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C. Each Respondent shall provide to EPA, upon request, clear and legible copies, as well as access to the originals, of any and all documents and information within its possession or control or in the possession or control of any of its divisions, employees, agents, accountants, contractors, subcontractors or attorneys (other than documents or information privileged under the attorney-client privilege or the work product doctrine)

relating to activities at the Site or the implementation of this Order, including but not limited to sampling analysis, chain of custody records, manifests, drafts, trucking logs, reports, correspondence or other documents or information related to the Site.

D. For a minimum period of ten (10) years following EPA's notification to Respondents that the Work has been completed, Respondents shall preserve and retain all records and documents in their possession or control, including the documents in the possession or control of their contractors and agents, on and after the effective date of this Order that relate in any manner to the Site. At the conclusion of this document retention period, Respondents shall notify the United States at least ninety (90) calendar days prior to the destruction of any such records or documents, and upon request by the United States, Respondents shall deliver any such records or documents to EPA.

### XXII. DELAY IN PERFORMANCE

- A. Any delay in performance of this Order that, in EPA's judgment, is not properly justified by Respondents shall be considered a violation of this Order. Any delay in performance of this Order shall not affect Respondents' obligations to fully perform all obligations under the terms and conditions of this Order.
- B. Respondents shall notify EPA of any delay or anticipated delay in performing any requirement of this Order. Such notification shall be made by telephone to EPA's RPM within forty-eight (48) hours after Respondents first knew or should have known that a delay might occur. Respondents shall adopt all reasonable

measures to avoid or minimize any such delay. Within five (5) business days after notifying EPA by telephone, Respondents shall provide written notification fully describing: a) the nature of the delay; b) any asserted justification for the delay; c) any reason why Respondents should not be held strictly accountable for failing to comply with any relevant requirements of this Order; d) the measures planned and taken to minimize the delay; and e) a schedule for implementing the measures that will be taken to mitigate the effect of the delay. Increased costs or expenses associated with implementation of the activities called for in this Order are not a justification for any delay in performance.

### XXIII. ASSURANCE OF ABILITY TO COMPLETE WORK

A. Respondents shall demonstrate their ability to complete the Work required by this Order and to pay all claims that arise from the performance of the Work by obtaining and presenting to EPA for review and approval within thirty (30) days of the effective date of this Order, one of the following: (i) a performance bond; (ii) a letter of credit; (iii) a guarantee by a third party; or (iv) internal financial information sufficient to allow EPA to determine that Respondents have sufficient assets available to perform the Work. Respondents shall demonstrate financial assurance in an amount not less than two and one-half million dollars (\$2,500,000.00). If Respondents seek to demonstrate ability to complete the Work by means of internal financial information, or by guarantee of a third party, they shall resubmit such information annually, on the anniversary of the effective date of this Order. If EPA determines that such

financial information is inadequate, Respondents shall, within thirty (30) days after receipt of EPA's notice of determination, obtain and present to EPA for approval one of the other three forms of financial assurance listed above in an amount not less than two and one-half million dollars (\$2,500,000.00).

B. A least seven (7) days prior to commencing any work at the Site pursuant to this Order, Respondents shall submit to EPA a certification that Respondents or their contractors and subcontractors have adequate insurance coverage or have indemnification for liabilities for injuries or damages to persons or property which may result from the activities to be conducted by or on behalf of Respondents pursuant to this Order. Respondents shall ensure that such insurance or indemnification is maintained for the duration of the performance of the Work required by this Order.

### XXIV. UNITED STATES NOT LIABLE

A. The United States, including but not limited to its agencies, divisions, departments, agents, employees and other representatives, by issuance of this Order, assumes no liability for any injuries or damages to persons or property resulting entirely or partially from acts or omissions of any or all Respondents or their directors, officers, employees, agents, representatives, successors, assigns, contractors, consultants or any other person acting on their behalf in carrying out any action or activity pursuant to this Order.

B. The United States, including but not limited to its agencies, divisions, departments, agents, employees and other representatives, shall not be deemed to be a party to any

contract entered into by any or all of the Respondents or their directors, officers, employees, agents, representatives, successors, assigns, contractors, consultants or any other person acting on their behalf in carrying out any action or activity pursuant to this Order.

C. The Respondents shall save and hold harmless the United States, including but not limited to its agencies, divisions, departments, agents, employees and other representatives, from any and all claims or causes of action or other costs incurred by the United States, including but not limited to attorneys fees and other expenses of litigation and settlement arising from or on account of acts or omissions of Respondents or their directors, officers, employees, agents, representatives, successors, assigns, contractors, consultants or any other person acting on their behalf in carrying out any action or activity pursuant to this Order.

D. Notwithstanding any approvals, permits, or other permissions which may be granted by the United States or other governmental entities or any other action by EPA, Respondents remain fully liable for any costs or damages arising from or relating to their acts or omissions or the acts of omissions of any of their contractors, subcontractors, or any other person acting on their behalf in the performance of the Work or their failure to perform fully or complete the Work.

### XXV. ENFORCEMENT AND RESERVATION

A. EPA reserves the right to bring an action against any or all Respondents under Section 107 of CERCLA, 42 U.S.C. § 9607, for recovery of any response costs incurred by the United States

related to this Order and not reimbursed by Respondents, as well as any other past and/or future costs incurred by the United States pursuant to CERCLA in connection with the Site. This reservation shall include but not be limited to past costs, future costs, direct costs, indirect costs, the costs of oversight, the costs of compiling the cost documentation to support oversight cost demand, as well as accrued interest as provided in Section 107(a) of CERCLA, 42 U.S.C. § 9607(a). In addition, EPA reserves the right to bring an action against any and all Respondents for injunctive relief and/or civil penalties under Section 106 of CERCLA, 42 U.S.C. § 9606, and/or for treble damages under Section 107(c)(3) of CERCLA, 42 U.S.C. § 9607(c)(3).

- B. Notwithstanding any other provision of this Order, at any time during the response action, EPA may perform its own studies, complete the response action (or any portion of the response action) and seek reimbursement from Respondents for its costs, or seek any other appropriate relief.
- C. Nothing in this Order shall preclude EPA from taking any additional enforcement action, including the modification of this Order or the issuance of additional orders, or additional removal or remedial actions as EPA deems necessary or from requiring Respondents in the future to perform additional activities pursuant to CERCLA, 42 U.S.C. § 9606(a), et seq., or any other applicable law. Respondents shall be liable, as provided in CERCLA Section 107(a), 42 U.S.C. § 9607(a), for the costs of any such additional actions.
  - D. Notwithstanding any provision of this Order, the United

States hereby retains all of its information gathering, inspection, access and enforcement authorities and rights under CERCLA, RCRA and any other applicable statutes or regulations.

- E. Nothing in this Order shall constitute or be construed as a release from any claim, cause of action or demand in law or equity against any person for any liability it may have arising out of or relating in any way to the Site.
- F. If a court issues an order that invalidates any provision or this Order or finds that Respondents have sufficient cause not to comply with one or more provisions of this Order, Respondents shall remain bound to comply with all provisions of this Order not invalidated by the court's order.

### XXVI. ADMINISTRATIVE RECORD

A. Upon EPA's request, each Respondent shall submit to EPA all documents in its possession related to the selection of the response action for possible inclusion in the administrative record file.

### XXVII. CIVIL PENALTIES

Respondents shall be subject to civil penalties under Section 106(b) of CERCLA, 42 U.S.C. § 9606(b), of not more than \$25,000 for each day in which Respondents willfully violate, or fail or refuse to comply with this Order without sufficient cause. In addition, failure to properly provide response action under this Order, or any portion hereof, without sufficient cause, may result in liability under Section 107(c)(3) of CERCLA, 42 U.S.C. § 9607(c)(3), for punitive damages in an amount at least equal to, and not more than, three times the amount of any costs incurred by the United States as a result of such failure

to take proper action.

### XXVIII. EFFECTIVE DATE AND COMPUTATION OF TIME

This Order shall be effective thirty-five (35) days after this Order is signed by the Director of the Hazardous Waste Management Division, EPA Region IX. Unless otherwise specified in this Order, all times for performance of ordered activities shall be calculated from this effective date.

### XXIX. SECTION HEADINGS

The section headings set forth in this Order and its Table of Contents are included for convenience of reference only and shall be disregarded in the construction and interpretation of any of the provisions of this Order.

#### XXX. OPPORTUNITY TO CONFER

- A. Respondents may, within fifteen (15) days after the date this Order is signed, request a conference with EPA Region IX's RPM and Assistant Regional Counsel concerning the provisions of this Order. If requested, the conference shall occur on April 22, 1992 at EPA's Region IX office, 75 Hawthorne Street, San Francisco, California.
- B. The purpose and scope of the conference shall be limited to issues involving the implementation of the response actions required by this Order and the extent to which Respondents intend to comply with this Order. This conference is not an evidentiary hearing, and does not constitute a proceeding to challenge this Order. It does not give Respondents a right to seek review of this Order or to seek resolution of potential liability. No official stenographic record of the conference will be made. If such conference is held pursuant to Respondent's request, each

Respondent may appear in person, or by an attorney or other representative.

C. Requests for a conference must be by telephone followed by written confirmation mailed that day to EPA's RPM.

### XXXI. COMPLETION

- A. Within thirty (30) days after Respondents conclude that all Work and other activities required by this Order have been fully performed, including but not limited to any nonroutine maintenance that may be required, (other than the record preservation activities required by Subpart XXI.D), Respondents shall so notify EPA in a Notice of Alleged Completion, including a brief outline of the basis for Respondents' conclusion. EPA may respond:
- 1. by identifying in writing to Respondents additional Work or other activities which may be required, in which case Respondents shall not resubmit any Notice of Alleged Completion until completing any such tasks identified by EPA, or
- 2. by scheduling an inspection to be attended by Respondents' and EPA's representatives. Within thirty (30) days of any such inspection, Respondents shall submit a report containing a certification by a registered professional engineer that the Work has been completed and a certification by Respondents' Project Coordinator that the Work and all other activities required by this Order (with the exception of the record preservation activities required by Subpart XXI.D) have been completed.
- 3. After receiving the report required by Paragraph XXXI.A.2, EPA may:

a. require such additional activities as may be
necessary to complete the Work or otherwise comply with the
requirements of this Order, or
b. based upon its knowledge at the time and
Respondents' report with certifications, issue written
notification to Respondents that the Work has been completed and
all other requirements of the Order (except the record

B. No notification, certification or submittal pursuant to this Section shall limit EPA's right to perform periodic reviews pursuant to Section 121(c) of CERCLA, 42 U.S.C. 9621(c), to pursue Respondents for violation of this Order, including any failure to meet the requirements of Subpart XXI.D or to take any action or require Respondents or any other party to take any action in accordance with CERCLA Sections 104, 106, or 107, 42 U.S.C. 9604, 9606 or 9607, or any other provision of law.

preservation activities required by Subpart XXI.D) have been met.

22 BY:

Jeffrey Zelikson, Director

Hazardous Waste Management Division

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

IT IS SO ORDERED on this 26 day of March, 1992.

U.S. Environmental Protection Agency, Region IX

1		ATTACHMENT A	
2		WORK SCHEDULE	
3		ACTIVITY	DUE DATE
4	I.	PRE-DESIGN ACTIVITIES	
5 6	<b>A</b> .	Selection of Project Coordinator	10 days after effective date of the Order
7 8	В.	Selection of RD Architect/Engineer	30 days after effective date of Order
9 10		Finalize Contract	30 days after EPA approval of Selection
11 12	c.	Remedial Design Workplan Draft	90 days after effective date of Order
13 14		Final Remedial Design Workplan	30 days after EPA approval of Draft
15 16	D.	Site QA Project Plan (QAPP) Draft	.90 days after effective date of Order
17 18		Final QAPP	30 days after EPA approval of Draft
19 20	Е.	Site Health & Safety Plan Draft	90 days after effective date of Order
21		Final Health & Safety Plan	30 days after EPA approval of Draft
23 24	F.	Permitting Requirements Plan Draft	90 days after effective date of Order
25 26		Final Permitting Requirements Plan	30 days after EPA approval of Draft
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1		ATTACHMENT A (Continued)	
2	II.	DESIGN ACTIVITIES	
3 4	Α.	Conceptual Remedial Design Report Draft	187 days after effective date of Order
5 6		Final Conceptual RD Report	30 days after EPA approval of Draft
7 8	в.	Pre-Final Remedial Design Report Draft	347 days after effective date of Order
9 10		Final Pre-Final RD Report	30 days after EPA approval of Draft
11 12	c.	Final Remedial Design Report Draft	467 days after effective date of Order
13 14		Final Remedial Design Report	30 days after EPA approval of Draft
15	III.	CONSTRUCTION OF REMEDIAL ACTION WORK	•
16 17 18	A.	Selection of Independent Quality Assurance Team	365 days after effective date of Order
19 20		Finalize Selection	30 days after EPA approval of Selection
21	В.	Selection of Remedial Action Engineer	365 days after effective date of Order
23 24		Finalize Contract	30 days after EPA approval of Selection
25 26	c.	Selection of RA Contractors/Subcontractors	440 days after effective date of Order
27 28		Finalize Contracts	30 days after EPA approval of Selection

1		ADDA CUMENTE 2 (Continued)	
2		ATTACHMENT A (Continued)	
3 4	D.	Remedial Action Workplan Draft	465 days after effective date of Order
5 6		Final RA Workplan	30 days after EPA approval of Draft
7	E.	Conduct Pre-Construction Conference	
8	IV.	IMPLEMENTATION OF REMEDIAL ACTION	
9	Α.	Construction Complete	695 days after effective date of Order
11	в.	Pre-final Inspection	
12	c.	Final Inspection	
13	D.	Interim Remedial Action Report Draft	785 days after
14	<b>D.</b>	Incerim Remedial Rector Report Brare	effective date of Order
15		Final Interim Remedial Action Report	46 days after
16 17		·	EPA approval of Draft
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